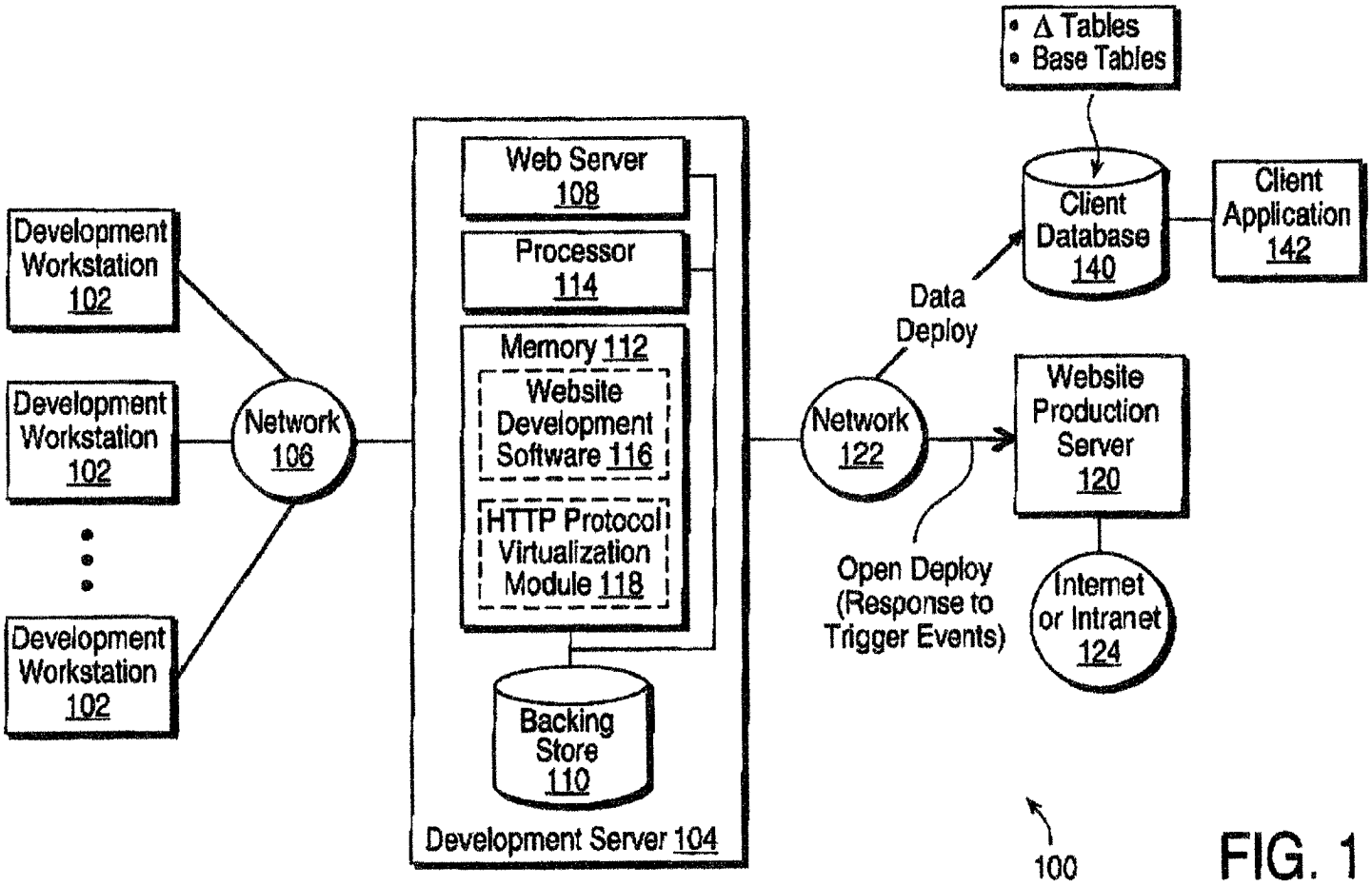

Δ Tables
Base Tables
Client Database 140
Client Application 142
Data Deploy
Development Workstation 102
Development Workstation 102
Development Workstation 102
Network 106
Web Server 108
Processor 114
Memory 112
Website Development Software 116
HTTP Protocol Virtualization Module 118
Backing Store 110
Development Server 104
Network 122
Website Production Server 120
Open Deploy (Response to Trigger Events)
Internet or Intranet 124
100

FIG. 1

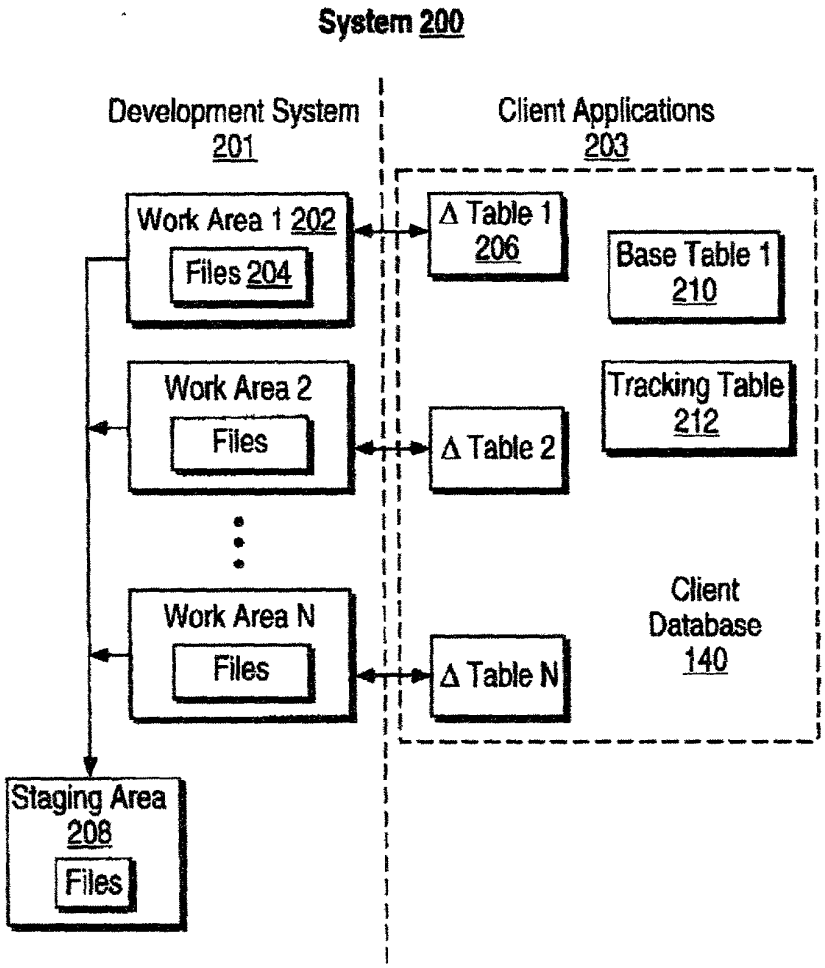

System 200
Development System 201
Client Applications 203
Work Area 1 202
Files 204
Work Area 2
Files
Work Area N
Files
Staging Area 208
Files
Δ Table 1 206
Δ Table 2
Δ Table N
Base Table 1 210
Tracking Table 212
Client Database 140

FIG. 2

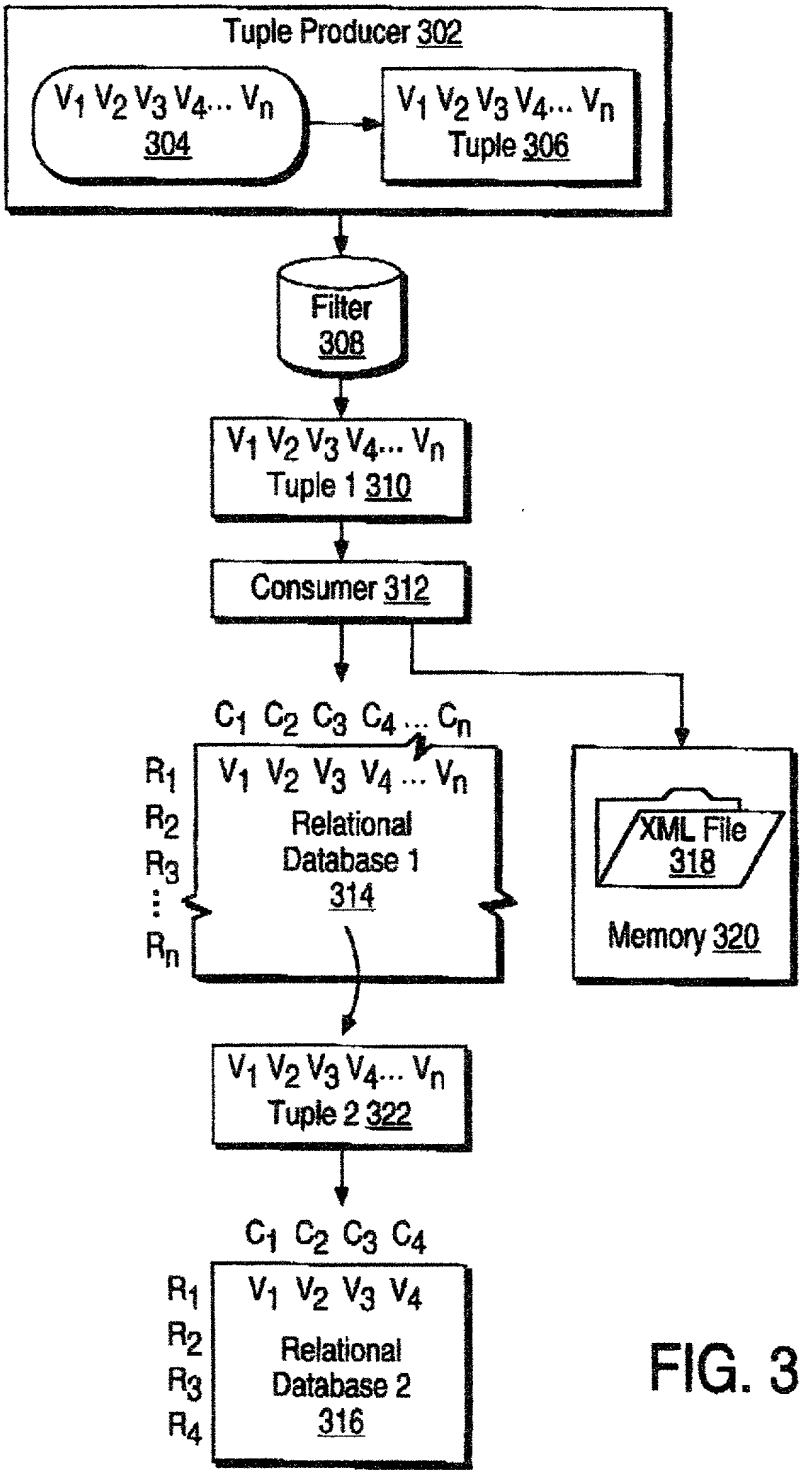

Tuple Producer 302
V1 V2 V3 V4... Vn
304
V1 V2 V3 V4... Vn
Tuple 306
Filter
308
V1 V2 V3 V4... Vn
Tuple 1 310
Consumer 312
C1 C2 C3 C4 ... Cn
R1
R2
R3
Rn
V1 V2 V3 V4 ... Vn
Relational
Database 1
314
XML File
318
Memory 320
V1 V2 V3 V4... Vn
Tuple 2 322
C1 C2 C3 C4
R1
R2
R3
R4
V1 V2 V3 V4
Relational
Database 2
316

FIG. 3

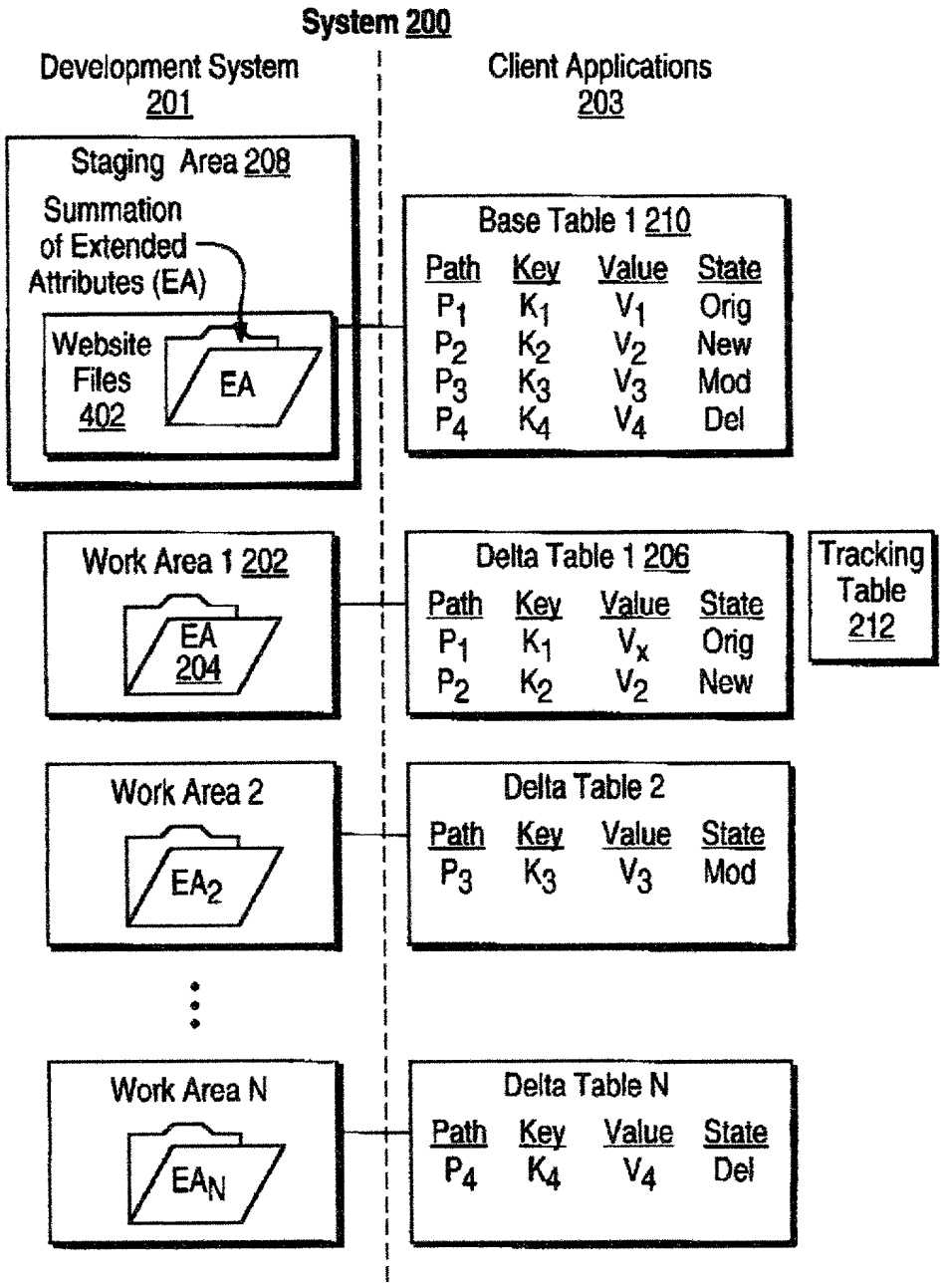

System 200
Development System 201
Client Applications 203
Staging Area 208
Summation of Extended Attributes (EA)
Website Files 402
EA
Base Table 1 210
Path Key Value State
P1 K1 V1 Orig
P2 K2 V2 New
P3 K3 V3 Mod
P4 K4 V4 Del
Work Area 1 202
EA 204
Delta Table 1 206
Path Key Value State
P1 K1 Vx Orig
P2 K2 V2 New
Tracking Table 212
Work Area 2
EA2
Delta Table 2
Path Key Value State
P3 K3 V3 Mod
Work Area N
EAN
Delta Table N
Path Key Value State
P4 K4 V4 Del

FIG. 4

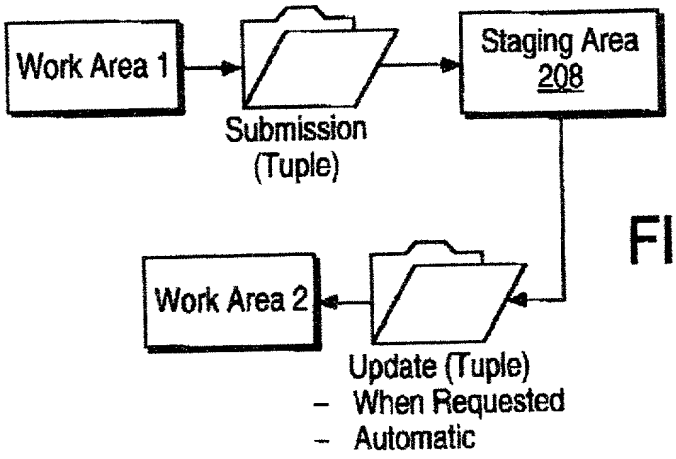


FIG. 5A

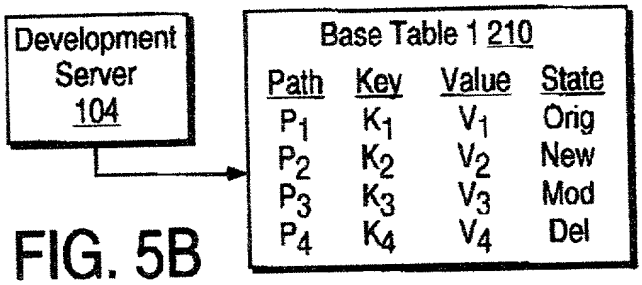


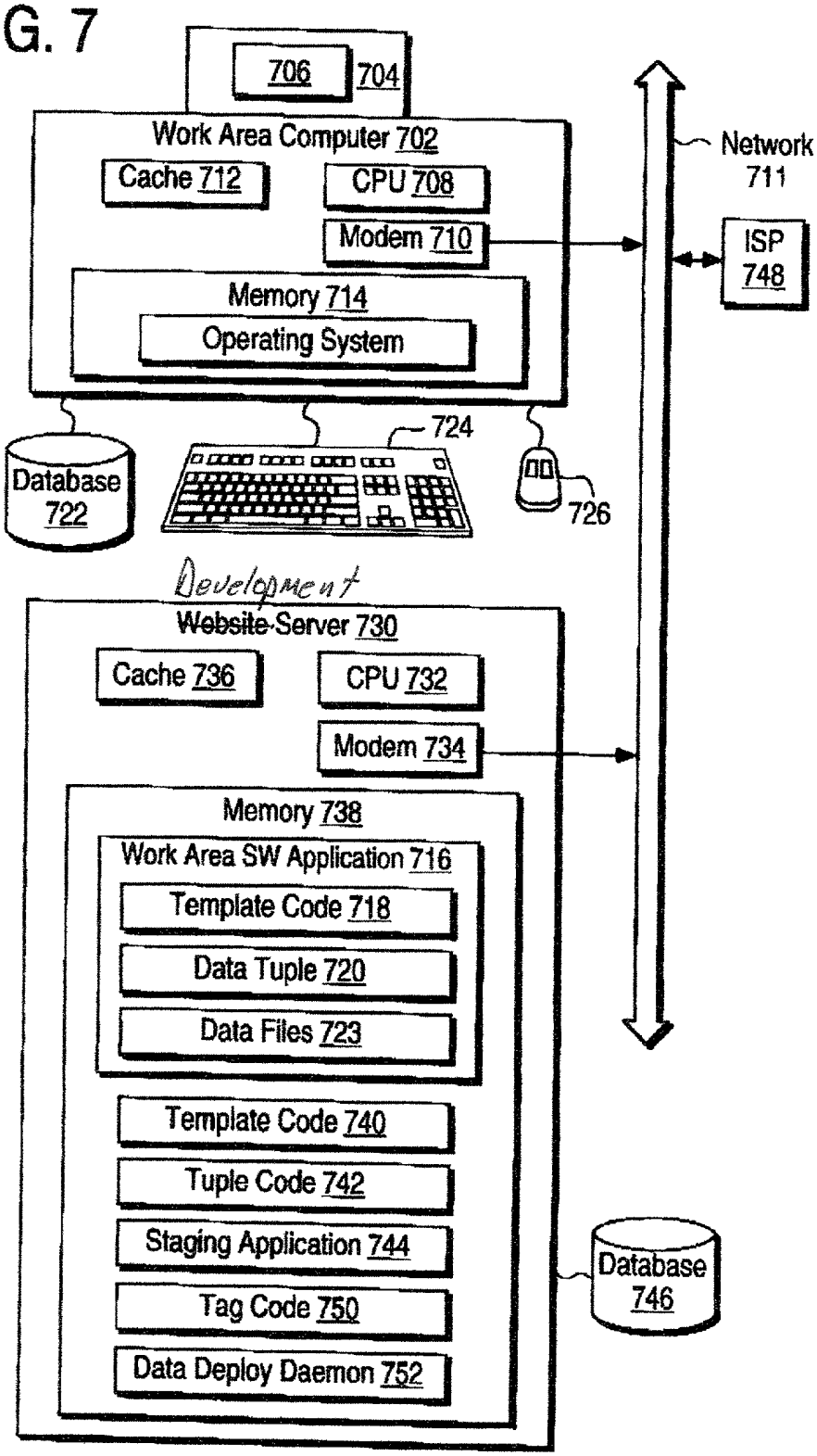
FIG. 5B

Tracker Table

Table Name	Associated Base Table	Update Time
Base Table 1	None	T1
Delta Table 1	B1	t2
Delta Table 2	B1	t3
⋮		
Delta Table N	B1	t4
Base Table 2	None	tN
Base Table N	B1	

FIG. 6

FIG. 7


706
704
Work Area Computer 702
Cache 712
CPU 708
Modem 710
Memory 714
Operating System
Network
711
ISP
748
724
Database
722
726
Development
Website Server 730
Cache 736
CPU 732
Modem 734
Memory 738
Work Area SW Application 716
Template Code 718
Data Tuple 720
Data Files 723
Template Code 740
Tuple Code 742
Staging Application 744
Tag Code 750
Data Deploy Daemon 752
Database
746

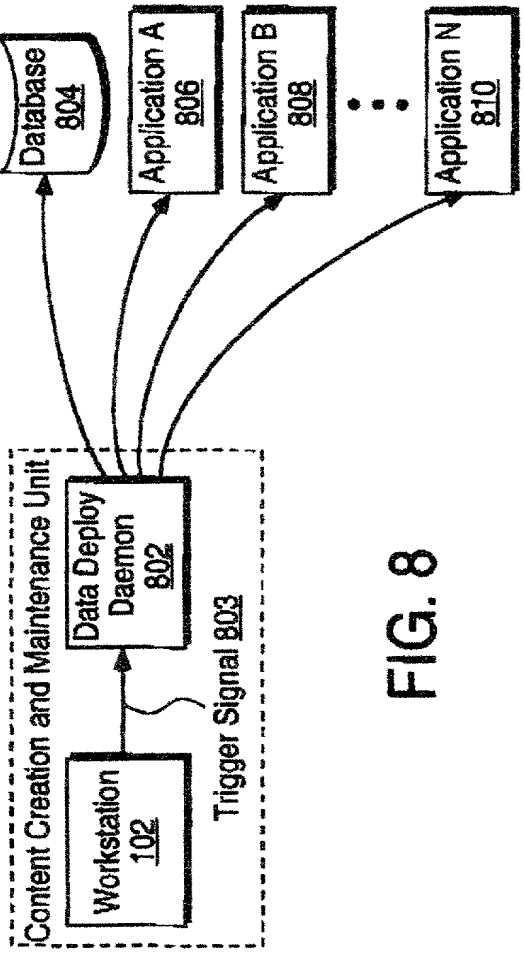

Database
804
Application A
806
Application B
808
Application N
810
Content Creation and Maintenance Unit
Data Deploy
Daemon
802
Workstation
102
Trigger Signal 803

FIG. 8

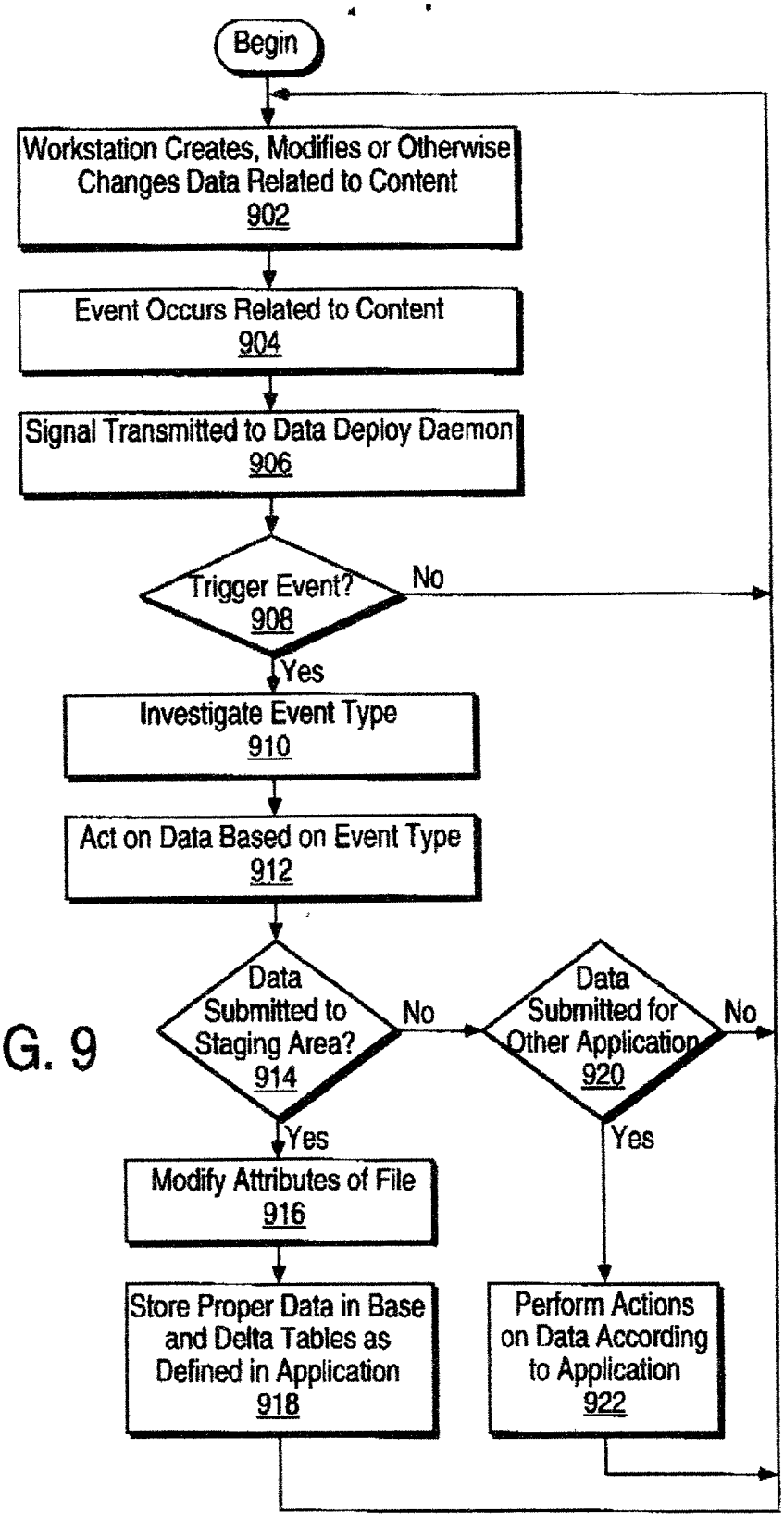
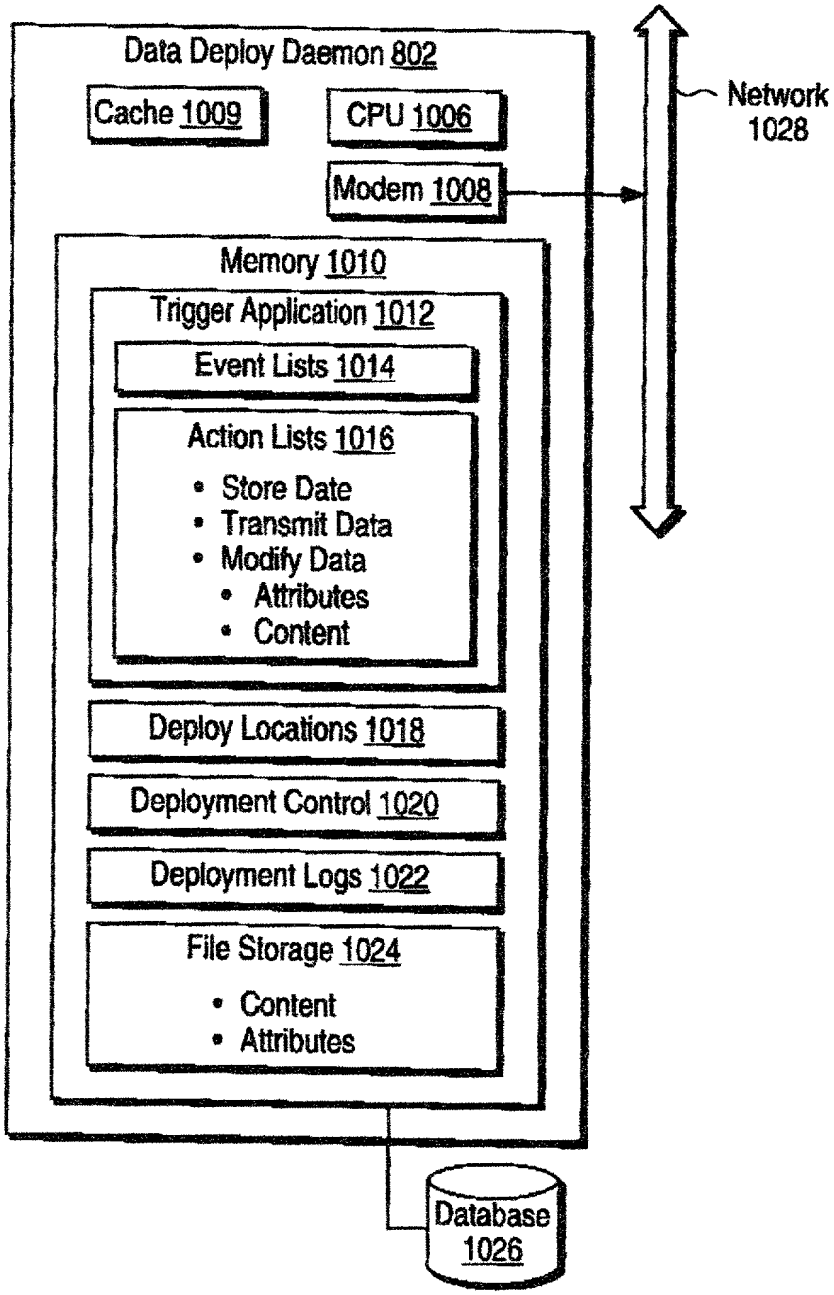

Begin
Workstation Creates, Modifies or Otherwise Changes Data Related to Content
902
Event Occurs Related to Content
904
Signal Transmitted to Data Deploy Daemon
906
Trigger Event?
908
No
Yes
Investigate Event Type
910
Act on Data Based on Event Type
912
Data Submitted to Staging Area?
914
No
Data Submitted for Other Application
920
No
Yes
Yes
Modify Attributes of File
916
Store Proper Data in Base and Delta Tables as Defined in Application
918
Perform Actions on Data According to Application
922

FIG. 9

FIG. 10


Data Deploy Daemon 802
Cache 1009
CPU 1006
Modem 1008
Network 1028
Memory 1010
Trigger Application 1012
Event Lists 1014
Action Lists 1016
• Store Date
• Transmit Data
• Modify Data
• Attributes
• Content
Deploy Locations 1018
Deployment Control 1020
Deployment Logs 1022
File Storage 1024
• Content
• Attributes
Database 1026